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SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> METHODS FOR PRODUCING ANTIBODIES

<130> C1-A0210Y1P

<140>

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<150> JP 2002-164834

<151> 2002-06-05

<150> JP 2002-180351

<151> 2002-06-20

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 1

gaattccacc atggttaagcg ctattgtt

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<210> 2

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:an artificially
synthesized primer sequence

<400> 2

gaattcttaa tattgtctat tacggt

26

<210> 3

<211> 1539

<212> DNA

<213> Baculovirus

3 / 1 0

<220>

<221> CDS

<222> (1).. (1539)

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atg gta agc gct att gtt tta tat gtg ctt ttg gcg gcg gcg gcg cat 48

Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His

1

5

10

15

tct gcc ttt gcg gcg gag cac tgc aac gcg caa atg aag acg ggt ccg 96

Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro

20

25

30

tac aag att aaa aac ttg gac att acc ccg ccc aag gaa acg ctg caa 144

Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln

35

40

45

aag gac gtg gaa atc acc atc gtg gag acg gac tac aac gaa aac gtg 192

Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val

50

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60

att atc ggc tac aag ggg tac tac cag gcg tat gcg tac aac ggc ggc 240

Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly

65

70

75

80

tcg ctg gat ccc aac aca cgc gtc gaa gaa acc atg aaa acg ctg aat 288

4 / 1 0

Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn

85

90

95

gtg ggc aaa gag gat ttg ctt atg tgg agc atc agg cag cag tgc gag 336

Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu

100

105

110

gtg ggc gaa gag ctg atc gac cgt tgg ggc agt gac agc gac gac tgt 384

Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys

115

120

125

ttt cgc gac aac gag ggc cgc ggc cag tgg gtc aaa ggc aaa gag ttg 432

Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu

130

135

140

gtg aag cgg cag aat aac aat cac ttt gcg cac cac acg tgc aac aaa 480

Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys

145

150

155

160

tcg tgg cga tgc ggc att tcc act tcg aaa atg tac agc agg ctc gag 528

Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu

165

170

175

tgc cag gac gac acg gac gag tgc cag gta tac att ttg gac gct gag 576

Cys Gln Asp Asp Thr Asp Glu Cys-Gln Val Tyr Ile Leu Asp Ala Glu

180

185

190

ggc aac ccc atc aac gtg acc gtg gac act gtg ctt cat cga gac ggc 624
 Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly
 195 200 205

gtg agt atg att ctc aaa caa aag tct acg ttc acc acg cgc caa ata 672
 Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile
 210 215 220

aaa gct gcg tgt ctg ctc att aaa gat gac aaa aat aac ccc gag tcg 720
 Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser
 225 230 235 240

gtg aca cgc gaa cac tgt ttg att gac aat gat ata tat gat ctt tct 768
 Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser
 245 250 255

aaa aac acg tgg aac tgc aag ttt aac aga tgc att aaa cgc aaa gtc 816
 Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val
 260 265 270

gag cac cga gtc aag aag cgg ccg ccc act tgg cgc cac aac gtt aga 864
 Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg
 275 280 285

gcc aag tac aca gag gga gac act gcc acc aaa ggc gac ctg atg cat 912

Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His

290

295

300

att caa gag gag ctg atg tac gaa aac gat ttg ctg aaa atg aac att 960

Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile

305

310

315

320

gag ctg atg cat gcg cac atc aac aag cta aac aat atg ctg cac gac 1008

Glu Leu Met His Ala His Ile Asn Lys Leu Asn Asn Met Leu His Asp

325

330

335

ctg ata gtc tcc gtg gcc aag gtg gac gag cgt ttg att ggc aat ctc 1056

Leu Ile Val Ser Val Ala Lys Val Asp Glu Arg Leu Ile Gly Asn Leu

340

345

350

atg aac aac tct gtt tct tca aca ttt ttg tcg gac gac acg ttt ttg 1104

Met Asn Asn Ser Val Ser Ser Thr Phe Leu Ser Asp Asp Thr Phe Leu

355

360

365

ctg atg ccg tgc acc aat ccg ccg gca cac acc agt aat tgc tac aac 1152

Leu Met Pro Cys Thr Asn Pro Pro Ala His Thr Ser Asn Cys Tyr Asn

370

375

380

aac agc atc tac aaa gaa ggg cgt tgg gtg gcc aac acg gac tcg tcg 1200

Asn Ser Ile Tyr Lys Glu Gly Arg Trp Val Ala Asn Thr Asp Ser Ser

385

390

395

400

caa tgc ata gat ttt agc aac tac aag gaa cta gca att gac gac gac 1248

Gln Cys Ile Asp Phe Ser Asn Tyr Lys Glu Leu Ala Ile Asp Asp Asp

405

410

415

gtc gag ttt tgg atc ccg acc atc ggc aac acg acc tat cac gac agt 1296

Val Glu Phe Trp Ile Pro Thr Ile Gly Asn Thr Thr Tyr His Asp Ser

420

425

430

tgg aaa gat gcc agc ggc tgg tcg ttt att gcc caa caa aaa agc aac 1344

Trp Lys Asp Ala Ser Gly Trp Ser Phe Ile Ala Gln Gln Lys Ser Asn

435

440

445

ctc ata acc acc atg gag aac acc aag ttt ggc ggc gtc ggc acc agt 1392

Leu Ile Thr Thr Met Glu Asn Thr Lys Phe Gly Gly Val Gly Thr Ser

450

455

460

ctg agc gac atc act tcc atg gct gaa ggc gaa ttg gcc gct aaa ttg 1440

Leu Ser Asp Ile Thr Ser Met Ala Glu Gly Glu Leu Ala Ala Lys Leu

465

470

475

480

act tcg ttc atg ttt ggt cat gta gtt aac ttt gta att ata tta att 1488

Thr Ser Phe Met Phe Gly His Val Val Asn Phe Val Ile Ile Leu Ile

485

490

495

gtg att tta ttt ttg tac tgt atg att aga aac cgt aat aga caa tat 1536

8 / 1 0

Val Ile Leu Phe Leu Tyr Cys Met Ile Arg Asn Arg Asn Arg Gln Tyr

500

505

510

taa

1539

<210> 4

<211> 512

<212> PRT

<213> Baculovirus

<400> 4

Met Val Ser Ala Ile Val Leu Tyr Val Leu Leu Ala Ala Ala Ala His

1

5

10

15

Ser Ala Phe Ala Ala Glu His Cys Asn Ala Gln Met Lys Thr Gly Pro

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25

30

Tyr Lys Ile Lys Asn Leu Asp Ile Thr Pro Pro Lys Glu Thr Leu Gln

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40

45

Lys Asp Val Glu Ile Thr Ile Val Glu Thr Asp Tyr Asn Glu Asn Val

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55

60

Ile Ile Gly Tyr Lys Gly Tyr Tyr Gln Ala Tyr Ala Tyr Asn Gly Gly

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70

75

80

Ser Leu Asp Pro Asn Thr Arg Val Glu Glu Thr Met Lys Thr Leu Asn

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95

Val Gly Lys Glu Asp Leu Leu Met Trp Ser Ile Arg Gln Gln Cys Glu

100	105	110	
Val Gly Glu Glu Leu Ile Asp Arg Trp Gly Ser Asp Ser Asp Asp Cys			
115	120	125	
Phe Arg Asp Asn Glu Gly Arg Gly Gln Trp Val Lys Gly Lys Glu Leu			
130	135	140	
Val Lys Arg Gln Asn Asn Asn His Phe Ala His His Thr Cys Asn Lys			
145	150	155	160
Ser Trp Arg Cys Gly Ile Ser Thr Ser Lys Met Tyr Ser Arg Leu Glu			
165	170	175	
Cys Gln Asp Asp Thr Asp Glu Cys Gln Val Tyr Ile Leu Asp Ala Glu			
180	185	190	
Gly Asn Pro Ile Asn Val Thr Val Asp Thr Val Leu His Arg Asp Gly			
195	200	205	
Val Ser Met Ile Leu Lys Gln Lys Ser Thr Phe Thr Thr Arg Gln Ile			
210	215	220	
Lys Ala Ala Cys Leu Leu Ile Lys Asp Asp Lys Asn Asn Pro Glu Ser			
225	230	235	240
Val Thr Arg Glu His Cys Leu Ile Asp Asn Asp Ile Tyr Asp Leu Ser			
245	250	255	
Lys Asn Thr Trp Asn Cys Lys Phe Asn Arg Cys Ile Lys Arg Lys Val			
260	265	270	
Glu His Arg Val Lys Lys Arg Pro Pro Thr Trp Arg His Asn Val Arg			
275	280	285	
Ala Lys Tyr Thr Glu Gly Asp Thr Ala Thr Lys Gly Asp Leu Met His			
290	295	300	
Ile Gln Glu Glu Leu Met Tyr Glu Asn Asp Leu Leu Lys Met Asn Ile			

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305						310						315						320
Glu	Leu	Met	His	Ala	His	Ile	Asn	Lys	Leu	Asn	Asn	Met	Leu	His	Asp			
					325						330						335	
Leu	Ile	Val	Ser	Val	Ala	Lys	Val	Asp	Glu	Arg	Leu	Ile	Gly	Asn	Leu			
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Met	Asn	Asn	Ser	Val	Ser	Ser	Thr	Phe	Leu	Ser	Asp	Asp	Thr	Phe	Leu			
					355						360						365	
Leu	Met	Pro	Cys	Thr	Asn	Pro	Pro	Ala	His	Thr	Ser	Asn	Cys	Tyr	Asn			
					370						375						380	
Asn	Ser	Ile	Tyr	Lys	Glu	Gly	Arg	Trp	Val	Ala	Asn	Thr	Asp	Ser	Ser			
385						390						395						400
Gln	Cys	Ile	Asp	Phe	Ser	Asn	Tyr	Lys	Glu	Leu	Ala	Ile	Asp	Asp	Asp			
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Val	Glu	Phe	Trp	Ile	Pro	Thr	Ile	Gly	Asn	Thr	Thr	Tyr	His	Asp	Ser			
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Trp	Lys	Asp	Ala	Ser	Gly	Trp	Ser	Phe	Ile	Ala	Gln	Gln	Lys	Ser	Asn			
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Leu	Ile	Thr	Thr	Met	Glu	Asn	Thr	Lys	Phe	Gly	Gly	Val	Gly	Thr	Ser			
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Leu	Ser	Asp	Ile	Thr	Ser	Met	Ala	Glu	Gly	Glu	Leu	Ala	Ala	Lys	Leu			
465						470						475						480
Thr	Ser	Phe	Met	Phe	Gly	His	Val	Val	Asn	Phe	Val	Ile	Ile	Leu	Ile			
					485						490						495	
Val	Ile	Leu	Phe	Leu	Tyr	Cys	Met	Ile	Arg	Asn	Arg	Asn	Arg	Gln	Tyr			
					500						505						510	